

16 May 1967

MEMORANDUM FOR THE RECORD

SUBJECT: Control Data Corporation Representatives' Visit,
15 May 67, 1000 hours

1. Subject meeting was a follow-up to a letter from Earle Lerette (Special Assistant to the President of CDC) to Mr. Duckett, expressing a desire for closer ties with the Directorate and implying a possible consultant-like role for one Charles J. Purcell. Mr. Duckett could not be present and asked Messrs. Briggs and Chapman to meet with Lerette and Purcell. In fact, Lerette entered a hospital on 12 May and was represented by Thomas E. Stone, Vice-President for Marketing; Purcell (now called Staff Consultant--a technical, rather than sales position) was present, as was Joseph A. Kersey, District Manager (D. C. area), Command and Intelligence Systems.

2. In summary, both Briggs and Chapman expressed interest in periodic contact between Purcell and their offices to keep abreast of CDC developments--a consultative relationship was not discussed; Kersey did note that they deliberately selected Purcell because he is not in CDC sales but is knowledgeable technically of the range of CDC support--including linking other main frames to CDC peripheral devices. Stone had used the word "consultant" in summarizing his understanding of Lerette's letter; Briggs deliberately spoke of periodic contact in the context of our IBM, RCA and other such contacts.

3. OCS state-of-the-art or near-term, and ORD R&D, interests were differentiated and specific mention was made of [redacted] as potentially interested parties. Briggs also mentioned [redacted] overall Agency ADP contact role. Kersey was aware of our (the Agency's) account including a Page Reader (in OCS), an 8090 (in Commo) and a 1700 display unit (to be located in FMSAC); he did not seem to be aware of a pending ORD [redacted]

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4. The visitors stressed display equipment and their information retrieval experience, as represented by a 150 man effort at NASA and an operating system at the University of Texas involving remote query multi-tasking, with security compartmentation overtones--the students being encouraged on Saturdays to try to break the system.

5. The next step was acknowledged to be establishing the appropriate clearance(s) for Purcell and then more detailed working level discussions. According to information received during the meeting, there is no record of a clearance for Stone; Kersey has an Agency SECRET (19 March 65) and NSA SI; Purcell has an Agency SECRET (3 Feb 65) but no codeword clearances.



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CHARLES A. BRIGGS
Director of Computer Services

Distribution:

Orig - File

1 - DDS&T

1 - D/ORD

1 - C/IPS/OPPB

1 - Chrono

D/OCS/DDS&T:CABriggs/mru:4011(16May67)



CHARLES J. PURCELL
Staff Consultant

Corporate Marketing
8100 34th Avenue South, Minneapolis, Minnesota 55420
Telephone Area Code 612/888-5555, Ext. 4208

JOSEPH A. KERSEY
DISTRICT MANAGER
COMMAND & INTELLIGENCE SYSTEMS

CONTROL DATA CORPORATION
11428 ROCKVILLE PIKE
ROCKVILLE, MARYLAND

TELEPHONE
949-8800



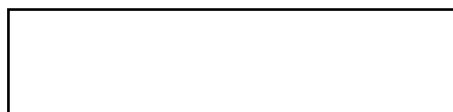
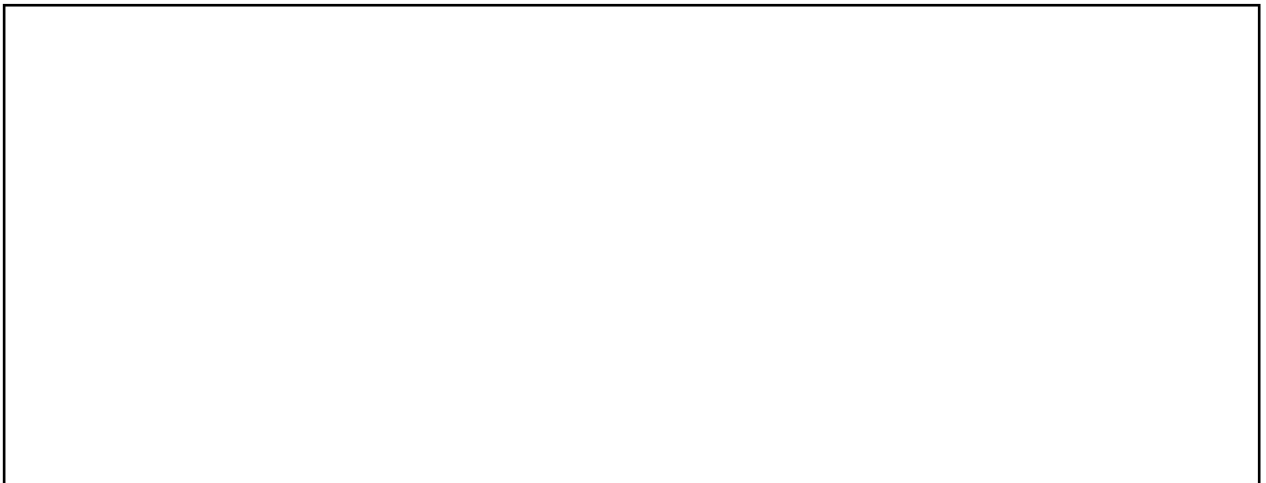
THOMAS E. STONE
Vice President

11428 Rockville Pike, Rockville, Maryland 20852
Telephone Area Code 301/949-8800

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transcriber also appeared to be below normal standards of reliability. As a result the Agency ordered an IBM 1401 for input/output processing. Shortly before this installation was to take place, the announcement of the RCA 301 computer with IBM card reader punch and an improved printer resulted in its acquisition vice the IBM 1401. The compatibility of the RCA 301 with the installed RCA 501 and its lower costs were additional contributing factors to this decision. The RCA 501 and RCA 301 are used more than any other systems in the CIA Computer Center; their average usage is 565 hours per month and 490 hours per month respectively.

In January 1963 the IBM 1410 and IBM 1401 systems were installed. These systems provided the capability of editing, sorting, and listing large files of data. Intelligence files and special projects in the DD/I area which had not previously been considered feasible on EAM equipment provided the principal volume of work for these systems. Later, new "business applications" in the DD/S area began to add significantly to the workloads, a case in point being the project.

Utilization of the IBM 1401 and IBM 1410 averages 440 hours and 547 hours per month, respectively.

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In July 1963, the IBM 7090 was installed to fill the need for a large-scale scientific computing capability. One of the great benefits of this particular computer was the easy acquisition of many operational IBM 7090 programs developed by other users in the aerospace, intelligence, and scientific fields. Utilization of this system averages 500 hours per month.

2.1.2. Peripheral Equipment

The CalComp Digital Incremental Plotter System and the Digi-Data Paper Tape to Magnetic Tape Converter are representative of peripheral equipment purchased to provide a unique capability. The plotter has been used both for plotting telemetry data in analog form and for statistical graphs. The paper tape converter has been used primarily for project Electronic Printing of Intelligence Composition (EPIC) and for Foreign Missile Space Analysis Center (FMSAC) requirements.]

2.1.3. Incompatibility

The problem of compatibility of data and computer hardware occurs between the RCA and IBM equipment. Magnetic tapes are not interchangeable between these systems and the only communication between these computers is through punched cards.

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Chapter 3.

CURRENT PROJECTS

The recurring production jobs are enumerated in this chapter. One-time jobs, internal scheduling and monitoring, training runs, and computer support development efforts (which in the aggregate involve a large amount of computer time) are not itemized. These figures are a further breakdown of the production totals shown in Chapter 2.

3.1. SCIENTIFIC COMPUTING

Following is a summarization of the present scientific computing workload. The workload is subdivided by type, followed by an explanation of the activity, customers, average machine usage per month, etc.

3.1.1. Air Defense System Simulation

This category consists of problems in the areas of general air defense systems, radar ranging analysis and hit and intercept probabilities. The customers for this effort are OSI, OSA, and ORR. In a typical month, these operations account for 4.7 hours of 7090 time and 3.2 hours of 1401 time.

3.1.2. Trajectory and Orbital Analysis

Involves problems related to satellite coverage, orbital determination and analysis, missile characteristics evaluation,

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3.3. MANAGEMENT DATA PROCESSING

On-going jobs which serve the Support Directorate are summarized below. Projects, customers, and machine use hours are given and each job is explained briefly. Preliminary work is underway on the development of a new Management Information System (MIS).

3.3.1. Agency Training Record (ATR)

The customer for this activity is OTR. In a typical month it accounts for 3.3 hours of 501 time and 3.0 hours of 301 time. Records of Agency-sponsored training are maintained.

3.3.2. Badge File

The customer for this activity is OS. In a typical month is accounts for 2.5 hours of 501 time and 1.0 hours of

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and 67.8 hours of 301 time. The operation is to maintain payroll records and produce salary checks, statements of earnings, deductions, leave balances, and W-2's; provide payroll accounting back-up and audit details, furnish information on excessive use of sick leave, compile data on overtime payments, and produce LWOP accumulations.

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3.3.8. Individual Earnings Records

The customer is OF. In a typical month it accounts for 10.0 hours of 501 time and 1.0 hours of 301 time. Pay period records of all personnel and payroll actions on pay, earnings, and deductions are provided.

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3.3.9. Cable Traffic Analysis (CATRAN)

The customer of CATRAN is OC. In a typical month it accounts for 3.2 hours of 1410 time and 0.1 hours of 1401 time. It provides statistics on cable traffic for planning personnel requirements, equipment, circuit requirements, etc.

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3.3.12. Logistics Stock Accounting

The customer for this activity is OL. In a typical month it accounts for 80.0 hours of 501 time and 66.0 hours of 301 time. Maintenance of a Master Property File (i.e., stock level and account of property) is provided.

3.3.13. Manufacturers Cross Reference

OL is the customer for this activity. In a typical month it accounts for 6.0 hours of 501 time and 2.0 hours of 301 time. It supports the Defense Logistics Supply Center federal cataloging function.

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3.3.16.6. Reciprocal and Reconciliation Accounting

The function is to maintain accounts and furnish detailed information for the reciprocal and reconciliation accounts.

3.4 COMMO OPERATIONS SUPPORT

OCS is supporting the Office of Communications with several on-going computer projects which are listed below.

3.4.1. [Machine Analysis]

In a typical month this job accounts for 0.7 hours of 1410 time. This is a specialized machine analysis.]

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Chapter 4

PROJECTED WORKLOAD

This chapter deals with monthly increases over the present computer workload which, though excessive to on-hand hardware capabilities, can be accommodated by the planned system. Required computer time is shown in terms of present hardware where feasible. However, projected requirements which cannot be handled on present type hardware are estimated for third generation hardware of the required capability.

4.1. SCIENTIFIC COMPUTING

A large part of the projected growth in the computer workload as of the end of 1968 is attributable to increased activity on scientific computing jobs which are already operational. The total increase in scientific computing time is estimated to be over 646 hours on the 7090.

4.1.1. Air Defense System Simulation

The customers for this activity are OSI and the Office of the DD/S&T. The projected growth in workload on this activity will require an additional 32 hours of 7090 time and 26 hours^{25X1} of 1401 time. The computing work relates ^{25X1}

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4.3. MANAGEMENT DATA PROCESSING

By the end of 1968 the projected increase in computer use time required to handle the planned growth in management support jobs totals 24 hours of 501 time, 25 hours of 301, 275 hours of 1410, and 1.1 hours of 360/65 per month.

4.3.1. Badge Office Files Consolidation Study

The customer for the Badge Office Files Consolidation

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4.3.4. Contract Accounting and Reporting System (CONARS)

The customer for the Contract Accounting and Reporting System is DD/S&T, Plans and Program Staff. The projected growth in the workload on this activity will require an additional 6.0 hours of 1410 time. The computing work relates to developing a system to do file maintenance and produce periodic reports on Agency contracts based upon contract type, contract subject matter, and contract financial accounting.

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4.3.6. Study of Cable Secretariat Procedures for Possible Automation

The customer for this study is the Cable Secretariat. The projected growth in the workload on this activity will require an additional 1.1 hours of 360/65 time. The computing work relates a study of the present procedures in the

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inclusion of all payroll accounting entries through the existing computer system.

4.4. COMMUNICATIONS OPERATIONS SUPPORT

No increase in the present workload or new COMMO support jobs have been identified. However, this is an area in which computer support to date has been quite beneficial. Therefore, growth, though not predictable in volume, is to be expected.

4.5. STATISTICAL DATA PROCESSING

The projected increase in required computer time for statistical jobs amounts to 25 hours of 7090 time and 21 hours of 1401 time per month. The three projects which account for this increase are included below.

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4.6. DOCUMENT/INFORMATION RETRIEVAL

Project CHIVE is the large scale document/information retrieval system under development in the Agency. To date computers have been used to support experimental work on

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shown previously. In addition, any especial provisions we have incorporated for accounting, security, accountability or retrieval would necessarily have to be incorporated into this software design also. As more details become available on this software, continued study of the specifications will be necessary in order to determine the necessary additions to satisfy the Agency's need.

5.3. ANTICIPATED PROBLEMS

In reviewing the IBM supplied software and in becoming acquainted with the IBM provided hardware, three major problems have been defined which will require study, solution, and management approval before the plan outlined above can be completed. These problems are briefly sketched below.

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5.3.2. Audit Trails and Accountability

The "new wave" in computing is on-line operation. Some of the proponents of this mode of operation have hypothesized that all computing will be on-line in the next few years. Several major obstacles must be overcome before such a system is possible. First, some of our data comes from such widely spread locations that it must first be concentrated before it is entered into the computer. For these data, accuracy is more important than time and the traditional keypunch and verifying process provides high accuracy combined with low cost. In the foreseeable future a good portion of our data will be entered into the machine in this way.

Another facet which will impede the predictions concerns the capabilities of the average trained programmer and his usual work habits. During the process of programming a task, a large job requires access to 20 to 50 different pieces of paper. The current mode of operation spreads these pieces

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